This listing of claims replaces all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

Claims 1-23 (canceled)

1   Claim 24.   (original)   A method of providing real time traffic weighted
2   routes using a navigation system having a route calculation program that uses a map
3   database that includes road segment records that represent portions of roads in a road
4   network in a geographic region, comprising the steps of:
5   receiving a wireless transmission indicating weightings applicable to roads in said
6   road network;
7   calculating a solution route between a first location in said geographic region and
8   a second location in said geographic region, wherein said solution route comprises a list
9   of road segment records that was obtained by forming at least one search tree formed of a
10   plurality of gates, wherein each gate represents a physical location on said road network
11   and an accessible direction relative to said physical location;
12   identifying to which of said road segments said weightings apply;
13   incrementing each of said gates in said at least one search tree that corresponds to
14   a road segment to which one of said weightings applies;
15   growing a search tree by expanding gates to form successor gates; and
16   evaluating which of said successor gates to select for further expansion using said
17   weighted gates.

Claims 25-30 (canceled)

1   Claim 31.   (previously presented)   The method of Claim 24 wherein
2   each gate identifies an associated road segment by referring to a segment database ID.
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1   Claim 32.   (previously presented)   The method of Claim 24 wherein
2   each gate identifies an associated road segment with a pointer.

1   Claim 33.   (previously presented)   The method of Claim 24 wherein, in

2 each gate, the accessible direction is reverse from a direction of vehicle travel.

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1   Claim 34.   (previously presented)   The method of Claim 24 wherein

2 each gate also includes a reference to a predecessor gate.

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1   Claim 35.   (previously presented)   The method of Claim 24 further

2 comprising:

3   after calculating the solution route from the first location to the second location,

4 augmenting an inbound search tree by adding thereto that portion of the at least one

5 search tree that formed part of the solution route.

6

1   Claim 36.   (previously presented)   The method of Claim 35 further

2 comprising:

3   maintaining in a memory of the navigation system the inbound search tree as

4 augmented with that portion of the at least one search tree that formed part of the solution

5 route.

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1   Claim 37.   (previously presented)   The method of Claim 24 further

2 comprising:

3   providing a user of the navigation system with guidance for following the solution

4 route to the second location from a physical location of the navigation system.

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1   Claim 38.   (previously presented)   The method of Claim 24 further

2 comprising:

3   prompting a user of the navigation system to indicate whether a new route should

4 be calculated upon detection that the navigation system departed from the solution route.

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1   Claim 39.   (previously presented)   The method of Claim 24 wherein the

2 weighting indicates traffic conditions.

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1   Claim 40.   (previously presented)   The method of Claim 24 wherein the

2 weightings are provided to the navigation system from a traffic monitoring service.

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       Claims 41-44 (canceled)